

QC ABSTRACT

NAME OF WORK: Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari
d no-02 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
4	Fine aggregate	Aggregate Impact Value	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
5	Steel	Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
6	Precast (100mm)	ReBend test	One Test		1	1
		Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	46.62	8	8
8	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	39.75	8	8

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-05-18-20 Date: 16-01-23

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore

Address : Yelahanka Sub Division, BBMP, Bangalore

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043

Customer's Reference : BBMP/EE/YNK D/EPMT-12/W O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-01-23

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5) 1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6

Date of test : 14-01-23

Environmental Conditions during test : Temperature 26°C
Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.42	—
2	Finess by Air permeability method (m ² /kg.Min)	288.6	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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FOR CIVIL Pro.

R. Rudraprasad
R. RUDRAPRASAD
Authorized Signatory
Technical Manager



TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-05-18-20 Date: 11-02-23
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division
Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.
Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-01-23
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification, IS 4031 (Part 4,5) 1988
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test : 14-01-23
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SLNo.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	57.5N/mm ²	Not less than 53 N/mm ²

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Authorized Signatory
Technical Manager

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****End of Report****



TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-05-18-20 Date: 16-01-23
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division
Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.
Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 13-01-23
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 13-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	188	188	1.3	98.7	90-100
3	20 mm	5261	5449	36.3	63.7	30-70
4	10 mm	6442	11891	79.3	20.7	10-35
5	4.75 mm	2499	14390	95.9	4.1	0-5
6	Pan	610	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2023-05-18-20

Date: 16-01-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.49	—
5	Bulk Density(Compacted) (Kg/l)	1.52	—
6	Water Absorption(%)	0.28	—

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Authorized Signatory
Technical Manager

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****End of Report****



TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-05-18-20 Date: 16-01-23
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division
Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.
Customer Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-01-23
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 13-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	288	288	5.8	94.2	90-100
3	10 mm	2898	3186	63.7	36.3	25-55
4	4.75 mm	1589	4775	95.5	4.5	0-10
5	Pan	225	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2023-05-18-20

Date: 16-01-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.61	—
4	Bulk Density(Loose) (Kg/l)	1.51	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.23	—
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Technical Manager

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End of Report



TEST REPORT OF FINE AGGREGATE

Date: 16-01-23

Lab ID : CP-2023-05-18-20
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division
Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.
Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 13-01-23
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 13-01-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	14	14	1.4	98.6	90-100	90-100	90-100	95-100
3	2.36 mm	78	92	9.2	90.8	60-95	75-100	85-100	95-100
4	1.18 mm	288	380	38.0	62.0	30-70	55-90	75-100	90-100
5	600 micron	219	599	59.9	40.1	15-34	35-59	60-79	80-100
6	300 micron	244	843	84.3	15.7	5-20	8-30	12-40	15-50
7	150 micron	98	941	94.1	5.9	0-10	0-10	0-10	0-15
8	Pan	59	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2023-05-18-20

Date: 16-01-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.26	—
2	Specific Gravity	2.52	—
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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All information furnished by Agency/Representative

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R. Rudraprasad
Authorized Signatory
Technical Manager

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****End of Report****

TEST RESULTS OF STEEL

b ID : CP-2023-05-18-20 Date: 14-01-23

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-01-23

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test : 13-01-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Authorized Signatory
Technical Manager



TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-05-18-20 Date: 30-01-23

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-01-23

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 25/01/2023

Grade of Slab : M25

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.56	100.48	1.116	4724	130.9	27.7	25.8	32.2
2	Cover Slab-2	77.51	100.52	1.122	4718	130.8	27.7	25.8	32.2
3	Cover Slab-3	77.64	100.51	1.118	4733	131.5	27.8	25.8	32.3

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Note:

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Handwritten signature
R RUDRAPRASAD
Authorized Signatory
Technical Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/01/2023

Lab ID : CP-2023-05-18-20

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-01-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	24/01/2023	31/01/2023	151.02 X 151.24 X 149.75	22840	8.223	413.6	18.1	18.3
2	Drain Bottom Raft Concrete	M20	24/01/2023	31/01/2023	150.99 X 150.88 X 150.08	22780	8.453	415.8	18.3	
3	Drain Bottom Raft Concrete	M20	24/01/2023	31/01/2023	149.48 X 151.33 X 150.62	22621	8.589	417.4	18.5	

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

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26-02



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Technical Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-20 Date: 21/02/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-01-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	24/01/2023	21/02/2023	149.48 X 151.51 X 151.13	22647	8.437	529.6	23.4	23.2
2	Drain Bottom Raft Concrete	M20	24/01/2023	21/02/2023	150.92 X 151.58 X 149.94	22877	8.804	521.2	22.8	
3	Drain Bottom Raft Concrete	M20	24/01/2023	21/02/2023	149.45 X 149.98 X 150.13	22415	8.796	527.2	23.5	

* The results obtained are satisfactory as per standard requirements

Note:

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Technical Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-20 Date: 21/02/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.

Customer's Reference : BBMP/EE/YNK D/EPMT-12/W.O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-01-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	24/01/2023	21/02/2023	150.92 X 151.86 X 151.01	22920	8.487	539.4	23.5	23.4
2	Drain Bottom Raft Concrete	M20	24/01/2023	21/02/2023	149.81 X 150.99 X 149.12	22621	8.664	518.5	22.9	
3	Drain Bottom Raft Concrete	M20	24/01/2023	21/02/2023	149.02 X 150.76 X 150.64	22466	8.502	530.5	23.6	

* The results obtained are satisfactory as per standard requirements.

Note:

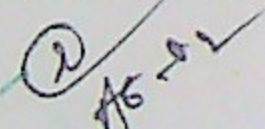
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R. RUDRAPRASAD
Authorized Signatory
Technical Manager

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****End of Report****



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-20 Date: 03/02/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-01-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	27/01/2023	03/02/2023	149.98 X 151.71 X 149.10	22754	8.610	427.1	18.8	18.5
2	Drain Side Wall Concrete	M20	27/01/2023	03/02/2023	149.69 X 151.59 X 150.21	22692	8.640	411.7	18.1	
3	Drain Side Wall Concrete	M20	27/01/2023	03/02/2023	150.92 X 150.07 X 151.60	22649	8.775	421.2	18.6	

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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A.E.E

CP
18-02



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R. Rudraprasad
Authorized Signatory
Technical Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-20 Date: 24/02/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-01-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	27/01/2023	24/02/2023	149.52 X 149.38 X 150.41	22335	8.754	532.5	23.8	23.5
2	Drain Side Wall Concrete	M20	27/01/2023	24/02/2023	149.06 X 151.99 X 150.37	22657	8.635	514.3	22.7	
3	Drain Side Wall Concrete	M20	27/01/2023	24/02/2023	151.13 X 149.56 X 149.87	22603	8.975	540.2	23.9	

* The results obtained are satisfactory as per standard requirements

Note:

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A.E.E

[Signature]



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[Signature]

R RUDRAPRASAD
Authorized Signatory
Technical Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-20 Date: 04/03/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2023

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	04/02/2023	04/03/2023	149.72 X 150.59 X 151.27	22546	8.239	750.3	33.3	33.3
2	Cement Concrete Pavement	M30	04/02/2023	04/03/2023	150.11 X 151.99 X 149.83	22815	8.823	741.7	32.5	
3	Cement Concrete Pavement	M30	04/02/2023	04/03/2023	151.98 X 150.92 X 150.45	22938	8.657	779.1	34.0	

* The results obtained are satisfactory as per standard requirements.

Note:

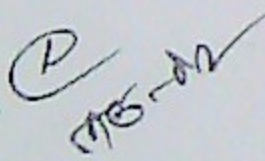
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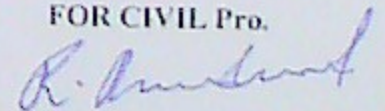
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A.E.E. 



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R. RUDRAPRASAD

Authorized Signatory
Technical Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-20 Date: 04/03/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	04/02/2023	04/03/2023	151.40 X 149.63 X 150.82	22655	8.708	766.3	33.8	33.5
2	Cement Concrete Pavement	M30	04/02/2023	04/03/2023	150.78 X 149.17 X 150.77	22492	8.143	733.7	32.6	
3	Cement Concrete Pavement	M30	04/02/2023	04/03/2023	151.77 X 149.86 X 151.39	22744	8.411	772.8	34.0	

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R.E.E. P.B.D.



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R. Rudraprasad
Authorized Signatory
Technical Manager

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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/02/2023

Lab ID : CP-2023-05-18-20

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division

Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-02-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	04/02/2023	11/02/2023	149.23 X 151.58 X 150.86	22621	8.337	582.6	25.8	25.6
2	Cement Concrete Pavement	M30	04/02/2023	11/02/2023	149.28 X 149.32 X 150.11	22291	8.731	599.8	26.9	
3	Cement Concrete Pavement	M30	04/02/2023	11/02/2023	150.27 X 150.45 X 151.37	22608	8.482	548.7	24.3	

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A.E.E.

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Page 1/1

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL

WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-05-18-20 Date: 04/03/2023
 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : Improvements to balance roads and drains at Ananthapura Village in Chowdeshwari ward no-02 of Yelahanka Sub Division
 Agency : Sri. Nagesh.M, No.E-27, Horamavu Agara, Horamavu Post, Bangalore-560043.
 Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/75/2022-23
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 06-02-23
 Customer ID : Cement Concrete Pavement
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M30 / 28 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	04/02/2023	04/03/2023	149.02 X 150.30 X 149.73	22399	8.719	759.1	33.9	33.3
2	Cement Concrete Pavement	M30	04/02/2023	04/03/2023	150.80 X 151.78 X 149.67	22889	8.242	749.1	32.7	
3	Cement Concrete Pavement	M30	04/02/2023	04/03/2023	149.76 X 150.44 X 149.53	22529	8.581	750.4	33.3	

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